

## **AUDIO WATERMARKING FOR CALL IDENTIFICATION IN A TELECOMMUNICATIONS NETWORK**

### **Abstract of the Disclosure**

A method of processing half-calls each having opposing first and second ends is provided within a telecommunications network. Each of the half-calls is either an originating half-call terminated at the first end thereof by calling consumer premises equipment (CPE) or a terminating half-call terminated at  
5 the first end thereof by called CPE, wherein an associated pair of half-calls connected at their second ends including both an originating and terminating half-call completes a call connecting the CPE terminating the respective first ends of the half-calls that form the pair. The method includes: applying  
10 identifiers to originating half-calls such that the originating half-calls are distinctly identifiable thereby with respect to one another, the identifiers thereafter accompanying terminating half-calls that form associated pairs of half-calls together with the originating half-calls to which the identifiers were applied; and, examining terminating half-calls to detect the identifiers such that  
15 upon detection of the identifiers the terminating half-calls accompanying the detected identifiers and the originating half-calls to which the identifier were applied are recognized as associated pairs of half-calls.